

25th Global Dentists and Pediatric Dentistry Annual Meeting

April 25-26, 2019 | Rome, Italy

Pulpectomy Simplified!!!

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The primary objective of pulpectomy is to maintain the primary teeth in the dental arch till its natural exfoliation. Pulpectomy will pose a great challenge to pedodontist due to the specific internal anatomy of primary tooth. Newer obturating materials today are available today to make pulpectomy on deciduous teeth more simple and thus reducing the duration of treatment.

Aim: To evaluate the clinical efficacy of Pulpotec in pulpectomy of deciduous molars.

Objective: Evaluate the efficacy of Pulpotec as an obturating material in pulpectomy of deciduous molars.

Material and Method: It is an *in-vivo* study which was performed on 61 teeth of patients aged 4 to 7 years. Pulpectomy was done with minimal instrumentation of the canals (20 K/H files). After drying the canals Pulpotec was placed only in the pulp chamber followed by restoration using stainless steel crown. Clinical evaluation was done at 2,4,6 months and clinical and radiographic evaluation was done at 12 months.

Result: At 2,4,6 months there were no clinical signs of failure. After 12 months 56 cases turned up for follow up and clinical and radiographical examinations were performed. 98.4% of the patients were seen to be free of any clinical symptoms at the end of 12 month follow up. Radiographic evaluation revealed 82% cases with healing of periapical radiolucency. At the follow-up no clinical pathological signs were detected, even in teeth with radiological failure.

Conclusion: The procedure was efficient, easy to use and was associated with a high clinical success rate. The clinical and radiological results show that this procedure could be considered as an alternative to the conventional endodontic treatment for primary teeth in paediatric dentistry.

Recent Publications

1. Manisha A, Usha Mohan D, Deepak V. A comparative evaluation of Non instrumentation endodontic techniques with conventional ZOE pulpectomy in deciduous molars: an *in vivo* study. World J Dent 2011; 2 (3):187-192.
2. Nakornchai S, Banditsing P, Visetratana N. Clinical evaluation of 3Mix and Vitapex as treatment options for pulpal involved primary molars. Int J Paediatr Dent 2010;20:214-21.
3. Pinky C, Shashibhushan KK, Subbareddy VV. Endodontic treatment of necrosed primary teeth using two different combinations of antibacterial drugs: An *in vivo* study. J Indian Soc Pedod Prev Dent 2011;29:121.
4. Al-Salman KA, Al-Rawi BA, Rahawy OS. The Effectiveness of Using Pulpotec® in Treatment of Pulpitis by Pulpotomy of Vital Deciduous Molar and Vital Immature Permanent Molar. Al-Rafidain Dent J. 2012; 12(1): 185-190.
5. Aboujaoude S, Noueiri B, Berbari R, Khairalla A, Sfeir E. Evaluation of a modified Pulpotec® endodontic approach on necrotic primary molars: a one-year follow-up. European journal of paediatric dentistry. 2015 ;16(6):111-4.

Biography

Hejamady Tati Ajayrao is a professor in Yenepoya Dental College, Mangalore with more than 13 years of experience. He has an expertise in pulp therapy and related topics. He has a private practice where he focuses on treatment and prevention of dental diseases in children. His vast experience in endodontic practice has helped to heal many painful conditions in children. He is actively involved in teaching and research pertaining to preventive dentistry.

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